

**Human Evolution: Fossils, Ancient and Modern Genomes  
20 – 22 November 2017**

**Wellcome Genome Campus,  
Hinxton, Cambridge, UK**

**Conference Programme**

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**Monday, 20 November**

- 12:00-13:20      **Registration and lunch**
- 13:20-13:30      **Welcome and introduction**  
*Programme Committee: Chris Tyler-Smith, Wellcome Trust Sanger Institute, UK*
- 13:30-14:30      **Keynote lecture 1**  
**Ancient DNA and its application to human evolution**  
*Svante Pääbo*  
*Max Planck Institute for Evolutionary Anthropology, Germany*
- 14:30-15:15      **Session 1: Apes and the origins of *Homo***  
*Chair: Jonathan Pritchard, Stanford University, USA*
- 14:30      Great ape diversity and population history  
*Tomas Marques-Bonet*  
*Institut Biologia Evolutiva (UPF/CSIC), Spain*
- 15:00      Reconstruction of the chimpanzee to human zoonotic transmission of Herpes Simplex Virus 2 (HSV2)  
*Simon Underdown*  
*Oxford Brookes University, UK*
- 15:15-15:45      **Afternoon tea**
- 15:45-17:45      **Session 2: Origin of modern humans and the importance of Africa**  
*Chair: Eske Willerslev, University of Cambridge, UK*
- 15:45      Phenotypic evolution in Africans and the origins of modern humans  
*Brenna Henn*  
*Stony Brook University, SUNY, USA*
- 16:15      Fossil and archaeological evidence for the origins of modern humans  
*Marta Mirazon Lahr*  
*University of Cambridge, UK*
- 16:45      What ancient genomics tells us on the dispersal of modern humans  
*Eske Willerslev*  
*University of Cambridge, UK*

- 17:15 Crossing the desert: Multidisciplinary perspectives on the dispersal of *Homo sapiens* into Asia  
*Huw Groucutt*  
*University of Oxford, UK*
- 17:30 Detecting introgressed archaic haplotypes in modern human genome sequences  
*Laurits Skov*  
*Bioinformatic Research Center, Denmark*

17:45-19:15 **Poster Session 1 (odd numbers) with drinks reception**

19:15 **Dinner**

## **Tuesday, 21 November**

09:00-10:30 **Session 3: Spread of modern humans outside of Africa**  
*Chair: Molly Przeworski, Columbia University, USA*

09:00 The Beaker phenomenon and the genomic transformation of Northwest Europe  
*David Reich*  
*Harvard Medical School, USA*

09.30 Bones, stones and genomes: constructing the narrative for the peopling of Sahul  
*Michael Westaway*  
*Griffith University, Australia*

10.00 Reconstructing Denisovan anatomy using DNA methylation maps  
*Liran Carmel*  
*The Hebrew University of Jerusalem, Israel*

10.15 Genetic history of late Neandertals  
*Mateja Hajdinjak*  
*Max Planck Institute for Evolutionary Anthropology, Germany*

10:30:11:00 **Morning coffee**

11:00-12:30 **Session 4: Into East Asia and the Americas**  
*Chair: Michael Westaway, Griffith University, Australia*

11:00 The complex population history of Remote Oceania  
*Johannes Krause*  
*Max Planck Institute, Germany*

11:30 Uncovering the prehistory of East Asia through ancient nuclear DNA  
*Qiaomei Fu*  
*Institute of Vertebrate Paleontology and Paleoanthropology, China*

12:00 Population structure in pre-contact North America: a whole-genome ancient DNA study  
*Christiana Scheib*  
*University of Cambridge, UK*

12:15 The genetic origin and heritage of Bronze Age Canaanites  
*Shai Carmi*  
*Hebrew University of Jerusalem, Israel*

12:30-14:00 **Lunch**

14:00-15:15 **Session 5: Human adaptations and population admixture**  
*Chair: Yali Xue, Wellcome Trust Sanger Institute, UK*

14:00 The implications of admixture between modern and archaic humans  
*Janet Kelso*  
*Max Planck Institute, Germany*

14:30 Evolutionary genetic dissection of the genus Homo and its immune response  
*Lluís Quintana-Murci*  
*Institut Pasteur, France*

15:00 Strong selection favouring Neanderthal-free segments on the X chromosome in out-of-Africa populations  
*Mikkel Heide Schierup*  
*Aarhus University, Denmark*

15:15-15:45 **Afternoon tea**

15:45-17:45 **Session 6: Human adaptations**  
*Chair: Janet Kelso, Max Planck Institute, Germany*

15:45 Introgression and human physiological adaptation  
*Rasmus Nielsen*  
*UC Berkeley, USA*

16:15 Polygenic architecture and adaptation of human complex traits  
*Jonathan Pritchard*  
*Stanford University, USA*

16:45 Studying viability selection in contemporary humans  
*Molly Przeworski*  
*Columbia University, USA*

17:15 Genetic structure, diversity and adaptation in Ethiopia  
*Saïoa López*  
*University College London, UK*

17:30 Towards the understanding of the genetic bases of complex adaptations in humans  
*Jaume Bertranpetit*  
*IBE-Universitat Pompeu Fabra, Spain*

17:45-19:15 **Poster session 2 (even numbers) with drinks reception**

19:15 **Dinner**

## Wednesday, 22 November

- 09:00-10:00      **Session 7: Human Evolution and disease**  
*Chair: Chris Tyler-Smith, Wellcome Trust Sanger Institute, UK*
- 09:00    The evolution and changing ecology of the human microbiome  
*Christina Warinner*  
*Max Planck Institute, Germany*
- 09:30    Metagenomic study of anthropogenic sediments: insights into public health and lifestyle  
*Thomas Collin*  
*University College Dublin, Ireland*
- 09.45    A population genetic approach to estimating the generation time in human evolution  
*Priya Moorjani*  
*Columbia University, USA*
- 10:00-10:30      **Morning coffee**
- 10:30-11:30      **Keynote lecture 2**  
Human evolution during the last 500,000 years  
*Chris Stringer*  
*The Natural History Museum, UK*
- 11:30-11:45      **Closing remarks**  
*Programme Committee: Yali Xue, Wellcome Trust Sanger Institute, UK*
- 11:45-13:00      **Lunch**
- 13:00              **Coaches depart to Cambridge City Centre and Train Station, Heathrow Airport via Stansted Airport**